



DEPARTMENT OF THE NAVY  
HEADQUARTERS UNITED STATES MARINE CORPS  
WASHINGTON, DC 20380-0001

MCO 4450.10C  
LFS-1  
29 Jul 93

MARINE CORPS ORDER 4450.10C

From: Commandant of the Marine Corps  
To: Distribution List

Subj: STORAGE AND WAREHOUSING EQUIPMENT MODERNIZATION PLANNING  
AND PROGRAMMING

Ref: (a) NAVSUP Pub 529 (NOTAL)  
(b) MCO P7100.8K  
(c) MCO P10150.1  
(d) MCO P11000.5F (NOTAL)

Encl: (1) Warehouse Modernization Detailed Equipment Exhibit  
(Expense/Investment Equipment)

1. Purpose. To establish planning and programming procedures for storage and warehousing equipment modernization.
2. Cancellation. MCO 4450.10B.
3. Information. An orderly workflow plan, optimal utilization of storage space, and reduced rewarehousing through proper design are essential for efficient warehousing operations and economic storage. The development of plans for the modernization of warehousing equipment, and the programming of resources to execute these plans are vital to the attainment of efficient and economic systems.
4. Action Addressees Shall:
  - a. Develop a 6-year plan for modernization of warehousing operations and equipment replacement, as required.
  - b. Develop modernization plans after review and application of reference (a). Consider the use of qualified government services/agencies prior to that of civilian consulting firms/industrial engineering consultants to develop studies or plans to ensure state-of-the-art warehousing methods and equipment are used to achieve the command's modernization objectives (contact CMC (LPP) for coordination assistance). These services are often available at no costs or for minimal costs (i.e., per diem and travel funds) and local Operation and Maintenance, Marine Corps funds can be used for this purpose. These funds may be subject to congressional or administrative limitations; therefore, all requirements must be identified as stated in paragraph 5906 of reference (b).

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c. Include in modernization projects such equipment as, automated materiel handling systems, storage aid systems (bin shelving and pallet racks), and preservation, packaging, and packing systems. Warehouse modernization projects shall not include wheeled motorized materiel handling equipment (MHE), except for first-time buys of narrow-aisle forklifts, to maximize the utilization of storage space. If MHE is a first-time buy, the activity's Garrison Mobile Equipment Officer/Manager shall validate requirements before submission of modification of allowance to the CMC (LFS) to ensure the command's table of equipment agrees.

d. Where appropriate, plan complete "turn-key projects to include limited investment funds on items not normally associated with investment expenditures; e.g., costs to run power to equipment and movement of doors or partitions when such work is part of the total modernization effort in a single warehouse.

e. Staff all equipment requirements through the command's Facility Director. The requesting activity will then submit the requirement through the local comptroller to the CMC (LFS).

f. Ensure equipment or systems meet criteria established for investment-type items. Account for equipment as plant property upon receipt at installation as indicated in reference (c), chapters 6 and 8.

g. Ensure equipment requested under the Warehouse Modernization Program is not duplicated in any other program or budget.

h. Ensure the planning and programming objectives required in this Order are not the modernization, repair, or modifications to buildings. Continue to make building modernization, repair, and major modifications as directed in reference (d).

#### 5. Budgeting and Funding

a. Submit investment fund (Procurement, Marine Corps) requirements to implement modernization plans to the CMC (LFS) before 10 July of each year for review. Base the submission on 6-year projected requirements to coincide with the Program Objective Memorandum cycle. Include a narrative of the command's warehouse modernization objectives. List, prioritize, and submit fund requirements within each fiscal year in the format shown in the enclosure.

b. Host commands shall coordinate, consolidate, and submit requirements of tenant commands.

c. The CMC (LFS) will monitor the warehouse modernization effort during periodic site visits.

6. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

*R.A. Tiebout*

R. A. TIEBOUT  
Deputy Chief of Staff  
for Installations and Logistics

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WAREHOUSE MODERNIZATION  
DETAILED EQUIPMENT EXHIBIT  
(EXPENSE/INVESTMENT EQUIPMENT)

ACTIVITY			FISCAL YEAR BUDGET		
FY	PRIORITY	ITEM DESCRIPTION <sup>1</sup>	REPLACEMENT PA ID NO.	QTY	TOTAL COST

JUSTIFICATION AND USER LOCATION:  
(Provide Narrative)

<sup>1</sup> Indicate TAMCN for forklifts.

ENCLOSURE (1)

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ENCLOSURE (1)